REMARKS

Claims 11, 13, 16, 17 and 20 were rejected under 35 U.S.C. §102(b) as being anticipated by Zerillo, U.S. Patent Publication No. 2003/0183102. Claims 14 and 15 were rejected under 35 U.S.C. §103(a) as being unpatentable over Zerillo in view of Eckelmeyer, U.S. Patent No. 4,271,379. Claim 18 was rejected under 35 U.S.C. §103(a) as being unpatentable over Zerillo in view of Jackson et al., U.S. Patent No. 7,302,237 and in further view of Eckelmeyer. Claim 19 was rejected under 35 U.S.C. §103(a) as being unpatentable over Zerillo in view of Marmin, U.S. Patent 5,242,367.

Reconsideration of the application based on the following remarks is respectfully requested.

Rejections under 35 U.S.C. §102(b)

Claims 11 13, 16, 17 and 20 were rejected under 35 U.S.C. §102(b) as being anticipated by Zerillo, U.S. Patent Publication No. 2003/0183102.

Zerillo discloses a magnetic retention system including one or more elongated retention devices 50 for retaining a printing plate 55 wrapped around the outer surface of a pate cylinder 60. The plate cylinder rotates about longitudinal axis A-A in the direction of the arrow A by a cylinder motor 65 under the control of a programmable controller 67 having a user input device 67a for entering instructions therein. The controller 67 may receive signals from a shaft encoder 69 coupled to plate cylinder 60 opposite the cylinder motor 65 which enables the controller 67 to monitor and set at selected positions the angular position of plate cylinder 60 about its axis of rotation A-A. (See paragraph [0040]).

Claim 11 recites "[a] rotary element of a printing press comprising:

an encoder for generating a periodic first signal in response to rotation of the rotary element; and

an evaluation unit linked to the encoder having:

at least one synthesizer for generating a second signal having a resolution ratio, a frequency ratio, and a phase relation to the first signal, and

a control interface for data exchange coupled to the at least one synthesizer for setting at least one of the resolution ratio, the frequency ratio and the phase relation of the first signal to the second signal based on data input by a user and transmitted to the synthesizer."

Zerillo does not show or teach the limitation of "a control interface for data exchange coupled to the at least one synthesizer for setting at least one of the resolution ratio, the frequency ratio and the phase relation of the first signal to the second signal based on data input by a user and transmitted to the synthesizer" as recited in claim 11. Zerillo discloses securing a plate on a plate cylinder. Controller 67 may receive signals from encoder 69 relating to the angular position of plate cylinder 60; however, Zerillo does not teach a control interface setting a resolution ratio, frequency ratio or phase relation of the signal sent from encoder 69 to any further or second signal.

In addition, Zerillo does not teach what type of information is input by the user or "at least one synthesizer for generating a second signal having a resolution ratio, a frequency ratio, and a phase relation to the first signal" at all. Encoder 69 in Zerillo sends a signal regarding the angular position of cylinder 60 and controller 67 sends a signal to motor 65 to adjust the angular position of cylinder 60. Zerillo does not discuss the type or characteristics of each of the signals. Zerillo only discloses that a signal is received by controller 67 from encoder 69 and a signal is sent from controller 67 to motor 65. There is no indication that these signals have any ratio or relation to each other.

Furthermore, the Office Action asserts on page 3 that "a user enters instructions, which can be instructions for the position and speed of the motor and cylinder, thus this impacts the second signal and impacts the phase relation, resolution ratio and frequency ratio of the first signal to the second signal." Applicants respectfully submit this assertion in the Office Action without support from Zerillo does not teach the limitations recited in claim 11 and does not support an anticipation rejection. Zerillo discloses "[t]he plate cylinder 60 rotates about longitudinal axis A-A in the direction of the arrow A by a cylinder motor 65 under the control of a programmable controller having an user input device 67a for entering instructions therein." Thus, Zerillo teaches controlling **the rotation** of plate cylinder 60 via user interface 67a. Zerillo does not teach "a control interface for data exchange coupled to the at least one synthesizer for setting at least one of the **resolution ratio**, the **frequency ratio** and the **phase relation** of the

first signal to the second signal based on data input by a user and transmitted to the synthesizer." There is no disclosure in Zerillo to support that the signal sent from controller 67 was set to include "at least one of the resolution ratio, the frequency ratio and the phase relation" of the signal received from encoder 69 "based on data input by a user and transmitted to the synthesizer" as recited in claim 11.

Withdrawal of the rejections to claims 11 13, 16, 17 and 20 under 35 U.S.C. §102(b) is respectfully requested.

Rejections under 35 U.S.C. §103(a)

Claims 14 and 15 were rejected under 35 U.S.C. §103(a) as being unpatentable over Zerillo in view of Eckelmeyer, U.S. Patent No. 4,271,379.

Zerillo is discussed above. Eckelmeyer discloses encoders 52, 54 associated with respective first and second motors 25, 50 to produce pulse trains which are compared for motor speed relationship. (Fig. 1, col. 3, lines 35 *et seq.*). If the relationship is not correct, the energization of the second motor is varied to correct the error. (Id.).

Claims 14 and 15 depend from claim 11. In view of the arguments above with respect to claim 11, withdrawal of the rejection to claims 14 and 15 under 35 U.S.C. §103(a) is respectfully requested.

Claim 18 was rejected under 35 U.S.C. §103(a) as being unpatentable over Zerillo in view of Jackson et al., U.S. Patent No. 7,302,237 and in further view of Eckelmeyer.

Zerillo is discussed above. Jackson et al. discloses a wideband frequency synthesizer 100 that includes two signal generators 20a, b. (Fig. 1). Eckelmeyer is discussed above.

Claim 18 depends from claim 11. In view of the arguments above with respect to claim 11, withdrawal of the rejection to claim 18 under 35 U.S.C. §103(a) is respectfully requested.

Claim 19 was rejected under 35 U.S.C. §103(a) as being unpatentable over Zerillo in view of Marmin, U.S. Patent 5,242,367.

Zerillo is discussed above. Marmin discloses a folder for a rotary offset printing press comprising a transfer cylinder 6, a first-fold cylinder 12 and a second fold cylinder 16. (Fig. 7).

Claim 19 depends from claim 11. In view of the arguments above with respect to claim 11, withdrawal of the rejection to claim 19 under 35 U.S.C. §103(a) is respectfully requested.

CONCLUSION

The present application is respectfully submitted as being in condition for allowance and applicants respectfully request such action.

Respectfully submitted,
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